Wednesday 09/20/2017

The Environmental Response Team's (ERT's) mobile laboratories, using the Trace Atmospheric Gas Analyzer (TAGA) tandem mass spectrometer system, performed mobile monitoring near Three Rivers, Texas, and near Beaumont, Port Arthur and Orange. The TAGA 1 conducted monitoring near Valero Three Rivers in Three Rivers, Texas. The TAGA 2 conducted monitoring near ExxonMobil Beaumont Colonial Storage, BASF Beaumont, Sunoco Hebert Terminal, Motiva Beaumont Terminal, Clark Port Arthur Pipeline Company (signage has Colonial Pipeline) and Beaumont Marine West Terminal in the Beaumont area, Invista Orange, Chevron Phillips Chemical - Polyethylene Plant, Firestone Orange in the Orange area, and the neighborhoods near Northwest of Sunoco Hebert Terminal, Northwest of Motiva Beaumont terminal, and North and Northeast of Invista in the Beaumont and Port Arthur area. No readings above the TCEQ Air Monitoring Comparison Values short-term comparison levels were detected by either TAGA. The air monitoring conducted on Wednesday 9/20/2017 indicated that the TAGA-specific analytes were below the Texas Commission on Environmental Quality (TCEQ) comparison levels (short-term Air Monitoring Comparison Values (AMCVs). Therefore, it appears that there is no significant air concern based upon the TCEQ comparison levels.

What's an AMCV

AMCV is a collective term used to describe chemical specific air concentrations used to evaluate air monitoring data that are set to protect human health and welfare. Short-term AMCVs are based on data concerning acute health effects. AMCVs may contain health -based Reference Values (ReVs) and health- and welfare-based ESLs.

AMCVs are screening levels used in TCEQ's evaluation of ambient air monitoring data to assess the potential for measured concentrations of specific chemicals to cause health or welfare effects. Health-based AMCVs are levels at which exposure is unlikely to result in adverse health effects.

Substance	CAS #	TAGA detection limit (ppbv)	TCEQ short-term AMCV (ppbv)
1,1,1-trichloroethane	71-55-6	1	1700
1,1-dichloroethane	75-34-3	1	1000
1,1-dichloroethylene	75-35-4	1	180
Benzene	71-43-2	1	180
ethylbenzene	100-41-4	1	20000
m/p-xylene	179601-23-1	1	1700
methyl tert-butyl ether	1634-04-4	1	500
o-xylene	95-47-6	1	1700
tetrachloroethylene	127-18-4	1	1000
Toluene	108-88-3	1	4000
trichloroethylene	79-01-6	1	100